

ABSTRACT

MASS SPECTROMETER

A mass spectrometer is disclosed comprising an  
5 electric field region  $L_2$  wherein a time-varying electric  
field is applied thereto. In a mode of operation a  
pulse of ions 3 comprising ions having different mass to  
charge ratios passes through the electric field region  $L_2$   
and the electric field is varied with time such that at  
10 least some of the ions 3 having different mass to charge  
ratios subsequently arrive at the extraction or  
acceleration region 10 of a Time of Flight mass analyser  
at substantially the same time.